U.S. Appln. No.: 10/785,084

Amendment under 37 C.F.R. § 1.114(c)

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): The zirconia sintered body comprising tetragonal zirconia, wherein a full width at half maximum at (111) plane of the tetragonal zirconia obtained by X-ray diffraction pattern measured under the following conditions is from 0.38 to 4 degree.

Conditions:

Radiation Source:

CuKα beam,

Voltage · Amplitude :

40 kV x 30 mA,

Monochromator:

Graphite,

Divergence Slit:

1.0 degree,

Scattering Slit:

1.0 degree,

Detector Slit:

0.3 degree,

Step Size:

0.2 degree,

Time/step:

continuous

Background Correction:

made,

Scan Speed:

0.4 degree/minute, and

wherein the zirconia sintered body contains a stabilizer and an amount of the stabilizer in the zirconia sintered body is about 2% by weight or more and about 5% 5.25% by weight or less,

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and the stabilizer is at least one selected from the group consisting of Y_2O_3 , CeO, TiO₂, Yb_2O_3 , Er_2O_3 , and Ho_2O_3 .

- 2. (original): The zirconia sintered body according to Claim 1, wherein the full width at half maximum at (111) plane of the tetragonal zirconia is from 0.4 to 2 degree.
- 3. (original): The zirconia sintered body according to Claim 1 or 2, wherein the full width at half maximum at (111) plane of the tetragonal zirconia is 1 degree or less.
- 4. (original): The zirconia sintered body according to Claim 1, wherein a ratio of the tetragonal zirconia in the zirconia sintered body is 90 % by volume or more.
- 5. (original): The zirconia sintered body according to Claim 1, wherein an average grain size of the zirconia sintered body is from 0.01 to 0.3 pm.
- 6. (original): The zirconia sintered body according to Claim 1, wherein a density of the zirconia sintered body is 6 g/cm³ or more.
- 7. (original): The zirconia sintered body according to Claim 6, wherein the density of the zirconia sintered body is from 6 to 6.1 g/cm³.
 - 8. (canceled).
 - 9. (canceled).
- 10. (original): The zirconia sintered body according to Claim 1, wherein the zirconia sintered body contains $A1_2O_3$.
- 11. (previously presented): A method for producing the zirconia sintered body, wherein the method comprises steps of[[;]]

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molding zirconia powder having an average particle diameter of from 0.1 to 0.6 μ m, a maximum particle diameter of 5 μ m or less and a substantially polyhedral shape, and then sintering the molded green body under the temperature of from 1200 to 1400 °C.

- 12. (original): The method according to Claim 11, wherein the zirconia powder contains monoclinic crystal.
- 13. (original): The method according to Claim 12, wherein a ratio of the monoclinic crystal in the zirconia powder is 70 % by volume or more.